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APPLICATION NO.	FILING DATE	· FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/061,216	02/04/2002	Gregory P. Pogue	43276	3510
	7590 03/26/200 E BIOLOGY CORPO	EXAMINER		
3333 VACA VALLEY PARKWAY SUITE 1000 VACAVILLE, CA 95688			HILL, MYRON G	
			ART UNIT	PAPER NUMBER
			1648	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/061,216	POGUE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Myron G. Hill	1648			
The MAILING DATE of this communic	cation appears on the cover sheet w	ith the correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOWHICHEVER IS LONGER, FROM THE MA - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commu. - If NO period for reply is specified above, the maximum stat. - Failure to reply within the set or extended period for reply vany reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS COMMUNION of 37 CFR 1.136(a). In no event, however, may a surication. State of the properties of the properties of the properties of the application to become Alexandre of the application of	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed	d on <u>22 September 2006</u> .	•			
2a) This action is FINAL . 2	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition f	or allowance except for formal matt	ers, prosecution as to the merits is			
closed in accordance with the practic	e under <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) 79-99 is/are pending in the a 4a) Of the above claim(s) is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 79-99 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restrict	e withdrawn from consideration.				
Application Papers					
9) The specification is objected to by the 10) The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including 11) The oath or declaration is objected to	a) accepted or b) objected to tion to the drawing(s) be held in abeyar the correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority of Some * Copies of the priority of Some * See the attached detailed Office actions	documents have been received. documents have been received in A of the priority documents have been hal Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PT	ro-948) Paper No(Summary (PTO-413) s)/Mail Date			
 Information Disclosure Statement(s) (PTO-1449 or F Paper No(s)/Mail Date 		nformal Patent Application (PTO-152)			

DETAILED ACTION

This action is in response to the papers filed 9/22/06.

Claims 79-99 are under consideration.

Claim Objections Withdrawn

Claim 95 was objected to because of the following informalities: "parenteral" appears to be misspelled.

Applicant has fixed the spelling and the objection is withdrawn.

Rejections Withdrawn

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 92-95 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicant has fixed the spelling and the rejection is withdrawn.

Art Unit: 1648

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 79-99 were rejected under 35 U.S.C. 103(a) being unpatentable over Garger *et al.* (US 6,033,895), (US 6,037,454), (US 6,303,779 B1) or (US 6,740,740 B2), each in the alternative, Koprowski *et al.* (US 6,042,832) and Francon *et al.* (US 5,075,110).

Applicant's arguments were persuasive and the rejection is withdrawn.

New Rejection

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 77-99 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method to purify viral proteins with pH-Heat extraction using two extractions and two PEG precipitations, does not reasonably provide enablement for a method with one extraction and one PEG precipitation. The specification does not enable any person skilled in the art to which it pertains, or with

Art Unit: 1648

which it is most nearly connected, to use the invention commensurate in scope with these claims.

The instant claims are evaluated for scope of enablement based on the Wands analysis. Many of the factors regarding undue experimentation have been summarized in *In re Wands*, 858 F.2d 731,8 USPQ2d 1400 (Fed.Circ.1988) as follows:

(1) the nature of the invention, (2) the state of the prior art, (3) the predictability or lack thereof in the art, (4) the amount of direction or guidance present, (5) the presence or absence of working examples, (6) the quantity of experimentation necessary, (7) the relative skill of those in the art, and (8) the breadth of the claims.

The invention is drawn to a method to method to purify viral proteins with pH-Heat extraction using two extractions and two PEG precipitations and the claims encompass only one extraction and one PEG precipitation.

The prior art teaches extraction of viral proteins from green juice similar to the claims, see Garger *et al.* (US 6,033,895) claims 1-3 and 10-11.

The prior art teaches yields of about 0.2 mg/g fresh weight Garger *et al.* (US 6,033,895) Tables 1 and 2.

Specification provides guidance and direction to purify viral proteins with pH-Heat extraction using two extractions and two PEG precipitations (example 6A).

The specification teaches that the results depend on the plant strain used and the virus preparation method (Table 1 and commentary below it (Page 19).

The claims do not reflect this difference.

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Art Unit: 1648

There is no evidence or guidance or directions how to purify the viral proteins without the extra extraction or PEG precipitation and obtain the same results.

The enabling disclosure is clearly not commensurate in scope with these claims.

The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

Without specific guidance or direction and /or working examples, one of ordinary skill in the art would not be able to reproducibly practice the method as claimed, without undue experimentation.

Conclusion

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myron G. Hill whose telephone number is 571-272-0901. The examiner can normally be reached on 8:30 am-5 pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1648

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Myron G. Hill Patent Examiner 3/16/06

> BRUCE R. CAMPELL, Ph.D SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600